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L1	4	("6742123" "6167535").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:03
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L3	5	indicat\$3 near3 execution near3 entit\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:05
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L5	32	((track\$3 monitor\$3 updat\$3 modif\$7 chang\$3 indicat\$3) with (usage consum\$3 consumption utiliz\$5) with (shar\$3 web internet intranet network) with (applet code program execution software script) with (memor\$3 cpu resource)) same (down-load\$3 download\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:07
L6	0	12 and 718/104.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:09
L7	0	12 and 709/226.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:08
L8	0	13 and 709/226.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:09

L9	0	13 and 718/104.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:09
L10	0	14 and 718/104.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:09
L11	0	14 and 709/226.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:09
L12	0	15 and 709/226.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:09
L13	0	15 and 718/104.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:10
L14	0	15 and "718"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:10
L15	0	15 and 718/100.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:11
L16	0	15 and 718/102.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:11
L17	0	15 and 719/318.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:11

L18	2	15 and 709/223.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:11
L19	2	15 and 709/224.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:12
L20	0	14 and 718/100.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:11
L21	0	14 and 718/102.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:11
L22	0	14 and 719/318.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:11
L23	0	14 and 709/223.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:11
L24	0	14 and 709/224.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:12
L25	0	13 and 709/224.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:12
L26	0	13 and 709/223.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:12

L27	0	13 and 719/318.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:12
L28	1	13 and 718/100.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:12
L29	0	13 and 718/102.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:12
L30	0	12 and 718/102.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:12
L31	0	12 and 718/100.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:12
L32	0	12 and 719/318.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:13
L33	0	12 and 709/223.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:13
L34	0	12 and 709/224.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/08/16 14:13

Application-specific safe message handlers (ASHs) are designed to provide applications with hardware-written code fragments that safely and efficiently execute in the kernel in response to message arrival. *A* eliminating copies) and send messages (thereby reducing send-response latency). In addition, the ASH : integrated layer processing (thereby eliminating duplicate message ...

145 Exokernel: an operating system architecture for application-level resource management

D. R. Engler, M. F. Kaashoek, J. O'Toole

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symp**
Volume 29 Issue 5


Full text available:  [pdf\(2.16 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index term](#):

146 Implementing global memory management in a workstation cluster

M. J. Feeley, W. E. Morgan, E. P. Pighin, A. R. Karlin, H. M. Levy, C. A. Thekkath

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symp**
Volume 29 Issue 5


Full text available:  [pdf\(1.52 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index term](#):

147 Informed prefetching and caching

R. H. Patterson, G. A. Gibson, E. Ginting, D. Stodolsky, J. Zelenka

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symp**
Volume 29 Issue 5


Full text available:  [pdf\(2.13 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index term](#):

148 Termination of Ada tasks in hardware

Lars Björnftot, Kristina Lundqvist, Göran Wall, Lars Asplund

November 1995 **Proceedings of the conference on TRI-Ada '95: Ada's role in global markets: solut**


Full text available:  [pdf\(1.29 MB\)](#)

Additional Information: [full citation](#), [references](#)

149 Dynamic resource brokering for multi-user query execution

Diane L. Davison, Goetz Graefe

May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international confere**
Issue 2

Full text available:  [pdf\(1.57 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

We propose a new framework for resource allocation based on concepts from microeconomics. Specifical managing resources in a multiple-query environment composed of queries with widely varying resource framework is a resource broker that realizes a profit by "selling" resources to competing operators using guiding principle for brokering resources is profit maximization. In other wo ...

150 Compiler transformations for high-performance computing

David F. Bacon, Susan L. Graham, Oliver J. Sharp

December 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 4

Full text available:  [pdf\(6.32 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

In the last three decades a large number of compiler transformations for optimizing programs have beer uniprocessors reduce the number of instructions executed by the program using transformations based (data-flow techniques. In contrast, optimizations for high-performance superscalar, vector, and parallel p memory locality with transformations that rely on tracking the properties o ...

Keywords: compilation, dependence analysis, locality, multiprocessors, optimization, parallelism, super

151 Evaluating models of memory allocation

Benjamin Zorn, Dirk Grunwald

January 1994 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 4 Issue 1

Full text available:  pdf(1.69 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

Because dynamic memory management is an important part of a large class of computer programs, high memory management have been and will continue to be of considerable interest. The goal of this research synthetic models of program allocation behavior. These models, if accurate enough, proved an attractive on trace-driven simulation using actual traces. Based on our analysis, w ...

Keywords: dynamic storage allocation, model evaluation, program behavior modeling, program measur

152 The paragon performance monitoring environment

B. Ries, R. Anderson, W. Auld, D. Breazeal, K. Callaghan, E. Richards, W. Smith

December 1993 **Proceedings of the 1993 ACM/IEEE conference on Supercomputing**


Full text available:  pdf(1.13 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

153 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available:  pdf(9.37 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)


Database management systems will continue to manage large data volumes. Thus, efficient algorithms f and sequences will be required to provide acceptable performance. The advent of object-oriented and ex this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate larg today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database syste systems, operator model of parallelization, parallel algorithms, relational database systems, set-matchin

154 Improving the cache locality of memory allocation

Dirk Grunwald, Benjamin Zorn, Robert Henderson

June 1993 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1993 conference on Pro implementation**, Volume 28 Issue 6

Full text available:  pdf(1.20 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

The allocation and disposal of memory is a ubiquitous operation in most programs. Rarely do programme memory allocators; most assume that memory allocators provided by the system perform well. This pap reference locality of dynamic storage allocation algorithms based on trace-driven simualtion of five large paper, we show how the design of a memory allocator can significa ...

155 StaCS: a Static Control Superscalar architecture

Benoît Dupont de Dinechin

December 1992 **ACM SIGMICRO Newsletter , Proceedings of the 25th annual international sympo:** 1-2


Full text available:  pdf(1.34 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

156 Client-server computing

Alok Sinha

July 1992 **Communications of the ACM**, Volume 35 Issue 7


Full text available:  pdf(7.53 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: client-server computing

157 Dissertation Abstracts in Computer Graphics

January 1992 **ACM SIGGRAPH Computer Graphics**, Volume 26 Issue 1


Full text available:  pdf(2.53 MB)

Additional Information: [full citation](#)

158 Hardware-assisted replay of multiprocessor programs

David F. Bacon, Seth Copen Goldstein

December 1991 **ACM SIGPLAN Notices , Proceedings of the 1991 ACM/ONR workshop on Parallel**
Issue 12


Full text available:  pdf(1.20 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index term](#):

159 CAPS: a coding aid for PASM

James E. Lumpp, Samuel A. Fineberg, Thomas L. Casavant, Wayne G. Nation, Edward C. Bronson, Howard Marinescu, Thomas Schwederski

November 1991 **Communications of the ACM**, Volume 34 Issue 11

Full text available:  pdf(5.80 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)


Programming parallel machines is very difficult. First, generating an algorithm requires the programmer threads of control. Second, synchronization and communication among the threads must be addressed to once the program is executing on the parallel system and does not function correctly or performs poorly. complicated problem [21]. Additionally, debugging software is an a ...

Keywords: instrumentation

160 GT-EP: a novel high-performance real-time architecture

Wei Siong Tan, H. Russ, Cecil O. Alford

April 1991 **ACM SIGARCH Computer Architecture News , Proceedings of the 18th annual international conference on computer architecture**, Volume 19 Issue 3

Full text available:  pdf(1.09 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

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121 Shock resistant Time Warp

May 1999

Proceedings of the thirteenth workshop on Parallel and distributed simulation

Full text available: pdf(904.99 KB) Publisher Site

[Additional Information: full citation, abstract, references, index term](#)

In an attempt to cope with time-varying workload, traditional adaptive Time Warp protocols are designed to make changes by altering control parameter configurations, like the amount of available memory, the size of the GVT computation, fossil collection invocations, etc. We call those schemes "reactive" because all control parameters are determined by historical performance information collected at runtime, and come into effect only when the system is in a bad state.

122 Flexible control of downloaded executable content

Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam

May 1999

ACM Transactions on Information and System Security (TISSEC), Volume 2 Issue 2

Full text available:  pdf(297.79 KB)

Additional Information: full citation, abstract, references, citings, in

We present a security architecture that enables system and application access control requirements to be enforced on downloaded executable content. Downloaded executable content consists of messages downloaded from the network, run, upon receipt, on the downloading principal's machine. Unless restricted, this content can perform machine operations, access the downloading principal's private data and sending messages on the network.

Keywords: access control models, authentication, authorization mechanisms, collaborative systems, role

123 Planning and resource allocation for hard real-time, fault-tolerant plan execution

Ella M. Atkins, Tarek F. Abdelzaher, Kang G. Shin, Edmund H. Durfee

April 1999 **Proceedings of the third annual conference on Autonomous Agents**

Full text available: pdf(1.01 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

124 Broadcast protocols to support efficient retrieval from databases by mobile users

Anindya Datta, Debra E. VanderMeer, Aslihan Celik, Vijay Kumar

March 1999

ACM Transactions on Database Systems (TODS), Volume 24 Issue 1

Full text available: pdf(638.48 KB)

Additional Information: full citation, abstract, references, citings, in

Mobile computing has the potential for managing information globally. Data management issues in mobile computing have been posed as an important problem in recent times, and the design of adaptive broadcast protocols has been posed as an important problem for servers to decide on the content of broadcasts dynamically, in response to client mobility and demand. This paper presents several new protocols and also propose efficient retrieval schemes.

Keywords: adaptive broadcast protocols, client-server computing, energy conservation, mobile databas

125 Job scheduling in the presence of multiple resource requirements

William Leinberger, George Karypis, Vipin Kumar

January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available:  [pdf\(597.11 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: high performance computing, multiple resource constraints, parallel job scheduling

126 Running EveryWare on the computational grid

Rich Wolski, John Brevik, Chandra Krintz, Graziano Obertelli, Neil Spring, Alan Su

January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available:  [pdf\(414.73 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

127 Array-driven simulation of real databases

William S. Keezer

December 1998 **Proceedings of the 30th conference on Winter simulation**

Full text available:  [pdf\(70.92 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

128 httperf—a tool for measuring web server performance

David Mosberger, Tai Jin

December 1998 **ACM SIGMETRICS Performance Evaluation Review**, Volume 26 Issue 3

Full text available:  [pdf\(648.48 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper describes httperf, a tool for measuring web server performance. It provides a flexible facility for measuring server performance. The focus of httperf is not on implementing one particular benchmark performance tool that facilitates the construction of both micro- and macro-level benchmarks. The three its robustness, which includes the ability to generate and sustain ...

129 Interactive display of very large textures

David Cline, Parris K. Egbert

October 1998 **Proceedings of the conference on Visualization '98**

Full text available:  [pdf\(1.59 MB\)](#)  [Publisher Site](#)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: bandwidth-limited resource, interactivity, real-time display, texture caching, texture mappin

130 JRes: a resource accounting interface for Java

Grzegorz Czajkowski, Thorsten von Eicken

October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference on Object languages, and applications**, Volume 33 Issue 10

Full text available:  [pdf\(2.01 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

With the spread of the Internet the computing model on server systems is undergoing several important dynamic operating system extensibility are finding their way into the commercial domain, resulting in de servers. In addition, both ordinary users and service providers must deal with untrusted downloadable e

intentions. Across the board, Java has emerged as the language of choice for ...

Keywords: Java, extensible systems, resource management

131 System-level power estimation and optimization

Luca Benini, Robin Hodgson, Polly Siegel

August 1998

Proceedings of the 1998 international symposium on Low power electronics and

Full text available:  pdf(878.71 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

Most work to date on power reduction has focused at the component level, not at the system level. In describing the power behavior of system-level designs. The model consists of a set of resources, an environmental power management policy, which serves as the heart of the system model. We map this model to a simple estimate of the system's power dissipation. Accompanying this ...

132 Experiences with network-based user agents for mobile applications

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee

August 1998

Mobile Networks and Applications, Volume 3 Issue 2

Full text available:  pdf(631.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)


Wireless networks are characterized by simple end devices and limited bandwidth. One solution to address the wireless mobile environment that has been widely pursued is the placement of proxies, or agents, inside the processing that would normally take place on end devices. These agents can additionally manipulate data to assist in providing services. The design and implementation of a user agent ...

133 Efficient and flexible fault tolerance and migration of scientific simulations using CUMULVS

James Arthur Kohl, Philip M. Papadopoulos

August 1998

Proceedings of the SIGMETRICS symposium on Parallel and distributed tools

Full text available:  pdf(1.76 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

134 PELLPACK: a problem-solving environment for PDE-based applications on multicomputer platform

E. N. Houstis, J. R. Rice, S. Weerawarana, A. C. Catlin, P. Papachiou, K.-Y. Wang, M. Gaitatzes

March 1998

ACM Transactions on Mathematical Software (TOMS), Volume 24 Issue 1

Full text available:  pdf(26.30 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

The article presents the software architecture and implementation of the problem-solving environment (PSE) for objects described by partial differential equations (PDEs). The scope of this PSE is broad, as PELLPACK includes some of these, in turn, include several specific PDE solving methods. Its coverage for 1D, 2D, and 3D elliptical and it handles some hyperbolic problems. Since a PSE should provide ...

Keywords: PDE language, execution models, knowledge bases, libraries, parallel reuse methodologies, programming-in-the-large, software bus

135 Simulation of computer systems and applications

William S. Keezer

December 1997

Proceedings of the 29th conference on Winter simulation

Full text available:  pdf(742.22 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

136 Scalable Networked Information Processing Environment (SNIPE)

Graham E Fagg, Keith Moore, Jack J Dongarra, Al Geist

November 1997

Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)

Full text available:  pdf(77.42 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


SNIFE is a metacomputing system that aims to provide a reliable, secure, fault-tolerant environment for applications and data stores across the global InterNet. This system combines global naming and replica large scale information processing applications leading to better availability and reliability than currently and/or distributed computer environments.

Keywords: MetaComputing, RCDS, SNIFE, reliable, scalable, secure

137 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collab**

Full text available:  pdf(4.21 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index term](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time better understanding of the execution of the application. The visualization tool we use is Poet, an event 1 Waterloo. However, these diagrams are often very complex and do not provide the user with the desired experience, such tools display repeated occurrences of non-trivial commun ...

138 Application performance and flexibility on exokernel systems

M. Frans Kaashoek, Dawson R. Engler, Gregory R. Ganger, Hector M. Briceño, Russell Hunt, David Mazières Jannotti, Kenneth Mackenzie

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on principles**, Volume 31 Issue 5


Full text available:  pdf(2.39 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index term](#)

139 The design, implementation and evaluation of SMART: a scheduler for multimedia applications

Jason Nieh, Monica S. Lam

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on principles**, Volume 31 Issue 5

Full text available:  pdf(2.48 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index term](#)

140 Exploiting process lifetime distributions for dynamic load balancing

Mor Harchol-Balter, Allen B. Downey

August 1997 **ACM Transactions on Computer Systems (TOCS)**, Volume 15 Issue 3

Full text available:  pdf(557.04 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

We consider policies for CPU load balancing in networks of workstations. We address the question of whether active processes) is necessary, or whether remote execution (migrating processes only at the time of birth) that resolving this issue is strongly tied to understanding the process lifetime distribution. Our measurements of process lifetimes for a UNIX process is Pareto (heavy-tailed), with ...

Keywords: Pareto distribution, heavy-tailed, load balancing, load sharing, migration, network of workstations, simulation, workload modeling

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Keywords: process priority, progress-based feedback, symmetric resource contention

115 Design and implementation of a distributed virtual machine for networked computers

Emin Gün Sirer, Robert Grimm, Arthur J. Gregory, Brian N. Bershad

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on principles**, Volume 33 Issue 5

Full text available:  [pdf\(1.62 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

This paper describes the motivation, architecture and performance of a distributed virtual machine (DVM) distributed service architecture to meet the manageability, security and uniformity requirements of large computers. In a DVM, system services, such as verification, security enforcement, compilation and optimization are located on powerful network servers. This partitioning of system functions ...

116 Cellular Disco: resource management using virtual clusters on shared-memory multiprocessors

Kinshuk Govil, Dan Teodosiu, Yongqiang Huang, Mendel Rosenblum

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on principles**, Volume 33 Issue 5

Full text available:  [pdf\(1.93 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

Despite the fact that large-scale shared-memory multiprocessors have been commercially available for some time, not all their features are still not available, mostly due to the complexity and cost of making the required changes. A recently proposed approach, called Disco, substantially reduces this development cost by using a virtual operating system technology. In this paper we present a system ...

117 The interactive performance of SLIM: a stateless, thin-client architecture

Brian K. Schmidt, Monica S. Lam, J. Duane Northcutt

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on principles**, Volume 33 Issue 5

Full text available:  [pdf\(1.79 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

Taking the concept of thin clients to the limit, this paper proposes that desktop machines should just be keyboards, mouse, etc.) that access a shared pool of computational resources over a dedicated interconnect. Building's telephone services are accessed by a collection of handset devices. The stateless desktop design allows users to transparently resume their work on any desktop computer ...

118 Parallel texture caching

Homan Igehy, Matthew Eldridge, Pat Hanrahan

July 1999 **Proceedings of the ACM SIGGRAPH/EUROGRAPHICS workshop on Graphics hardware**

Full text available:  [pdf\(1.80 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

119 Power conscious fixed priority scheduling for hard real-time systems

Youngsoo Shin, Kiyoungh Choi

June 1999 **Proceedings of the 36th ACM/IEEE conference on Design automation**


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Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

120 Scheduling optimization for resource-intensive Web requests on server clusters

Huican Zhu, Ben Smith, Tao Yang

June 1999 **Proceedings of the eleventh annual ACM symposium on Parallel algorithms and architectures**

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Keywords: integrated programming environments, program editors

105 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999

ACM Computing Surveys (CSUR), Volume 31 Issue 2

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Additional Information: fu

Recent advances in wireless data networking and portable information appliances have engendered a new way of working regardless of their physical location or movement behavior. In the meantime, research addressing information management in a mobile way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, discon

106 Flexible control of downloaded executable content

Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam

May 1999

ACM Transactions on Information and System Security (TISSEC), Volume

Full text available: pdf(297.79 KB)

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We present a security architecture that enables system and application access control requirements to be downloaded from remote hosts that contain executables that run, upon receipt, on the downloading principal and sending messages on the ...

Keywords: access control models, authentication, authorization mechanisms, collaborative systems, role

107 Planning and resource allocation for hard real-time, fault-tolerant plan execution

Ella M. Atkins, Tarek F. Abdelzaher, Kang G. Shin, Edmund H. Durfee

April 1999 **Proceedings of the third annual conference on Autonomous Agents**

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108 Summary of the sigmetrics symposium on parallel and distributed processing

Jeffrey K. Hillingsworth, Barton P. Miller

March 1999 **ACM SIGMETRICS Performance Evaluation Review**, Volume 26 Issue 4

Full text available: pdf(1.17 MB)

Additional Information: full citation, index terms

109 Broadcast protocols to support efficient retrieval from databases by mobile users

Anindya Datta, Debra E. VanderMeer, Aslihan Celik, Vijay Kumar

March 1999

ACM Transactions on Database Systems (TODS), Volume 24 Issue 1

Full text available:  pdf(638.48 KB)

Additional Information: fu

Mobile computing has the potential for managing information globally. Data management issues in mobile computing are an important problem. Such protocols are employed by database servers to decide on the content of broadcast data retrieval s ...

Keywords: adaptive broadcast protocols, client-server computing, energy conservation, mobile databases

110 Running EveryWare on the computational grid

Rich Wolski, John Brevik, Chandra Krintz, Graziano Obertelli, Neil Spring, Alan Su

January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available:  pdf(414.73 KB)


Additional Information: full citation, references, citings, index terms

111 JRes: a resource accounting interface for Java

Grzegorz Czajkowski, Thorsten von Eicken

October 1998

ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conferen

Full text available:  pdf(2.01 MB)

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With the spread of the Internet the computing model on server systems is undergoing several important resulting in designs of extensible databases and Web servers. In addition, both ordinary users and servic as the language of choice fo ...


Keywords: Java, extensible systems, resource management

112 Performance counters and state sharing annotations: a unified approach to thread locality

Boris Weissman

October 1998

Proceedings of the eighth international conference on Architectural sup

Full text available:  pdf(1.76 MB)

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This paper describes a combined approach for improving thread locality that uses the bardware perform shared state cache model to compute expected thread footprints in the cache on-line. The accuracy of th implement several practical loca ...

113 Vclusters: a flexible, fine-grained object clustering mechanism

Mark L. McAuliffe, Michael J. Carey, Marvin H. Solomon

October 1998

ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conferen

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We consider the problem of delivering an effective fine-grained clustering tool to implementors and user concentrates on clustering *policies* (deciding which objects should be near each other). Existing on-line c particularl ...

114 UFO: a personal global file system based on user-level extensions to the operating system

Albert D. Alexandrov, Maximilian Ibel, Klaus E. Schauser, Chris J. Scheiman

August 1998

ACM Transactions on Computer Systems (TOCS), Volume 16 Issue 3

Full text available:  pdf(251.25 KB)

Additional Information: [fu](#)

In this article we show how to extend a wide range of functionality of standard operation systems compl file system provided by many Unix operating systems. The behavior of some intercepted system calls is fact, the ...

Keywords: file caching, global name space, proc file system, user-level operating system extensions

115 Experiences with network-based user agents for mobile applications

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee

August 1998

Mobile Networks and Applications, Volume 3 Issue 2

Full text available:  pdf(631.57 KB)

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Wireless networks are characterized by simple end devices and limited bandwidth. One solution to addre inside the network to assist with application processing that would normally take place on end devices. T implementation of a user a ...

116 Guidance for the use of the Ada programming language in high integrity systems

B. A. Wichmann

July 1998

ACM SIGAda Ada Letters, Volume XVIII Issue 4

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This paper is the current result of a study by the ISO HRG Rapporteur group which is being circulated for substantial e-mail comments are: Praful V Bhansali (Boeing, USA), Alan Burns (University of York, UK), I (DGEI/INSA, France), George Roma ...

117 A dynamic view-oriented group communication service

Roberto De Prisco, Alan Fekete, Nancy Lynch, Alex Shvartsman

June 1998 **Proceedings of the seventeenth annual ACM symposium on Principles of distributed**

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118 Performance evaluation of the Orca shared-object system

Henri E. Bal, Raoul Bhoedjang, Rutger Hofman, Cerie Jacobs, Koen Langendoen, Tim Rühl, M. Frans Kaash

February 1998 **ACM Transactions on Computer Systems (TOCS)**, Volume 16 Issue 1

Full text available:  pdf(179.39 KB)

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Orca is a portable, object-based distributed shared memory (DSM) system. This article studies and evaluates a coherence protocol (based on write-updates with function shipping), the totally ordered group communication protocol, and the application of Orca to parallel applications. The results show that Orca can support a wide range of applications with a high degree of portability and scalability.

Keywords: distributed shared memory, parallel processing, portability

119 Adaptive, fine-grained sharing in a client-server OODBMS: a callback-based approach

Markos Zaharioudakis, Michael J. Carey, Michael J. Franklin

December 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 4

Full text available: pdf(441.80 KB)

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For reasons of simplicity and communication efficiency, a number of existing object-oriented database m
their efficiency, page servers are often criticized as being too retractive when it comes to concurrency, as
server context. Sev ...

Keywords: cache coherency, cache consistency, client-server databased, fine-grained sharing, object-o

120 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

Proceedings of the 1997 conference of the Centre for Advanced Studies

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Understanding distributed applications is a tedious and difficult task. Visualizations based on process-tim event tracer developed at the University of Waterloo. However, these diagrams are often very complex & trivial commun ...



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Timothy H. Harrison, David L. Levine, Douglas C. Schmidt

October 1997

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The CORBA Event Service provides a flexible model for asynchronous communication among objects. Ho
operational flight programs for fighter aircraft have complex real-time processing requirements. This pap
meet these requirements.This page ...

122 [CPU reservations and time constraints: efficient, predictable scheduling of independent activities](#)

Michael B. Jones, Daniela Roşu, Marcel-Cătălin Roşu

October 1997

ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM syn

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123 [Trace-driven memory simulation: a survey](#)

Richard A. Uhlig, Trevor N. Mudge

June 1997

ACM Computing Surveys (CSUR), Volume 29 Issue 2

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Additional Information: [fu](#)

As the gap between processor and memory speeds continues to widen, methods for evaluating memory
simulation, has been the subject of intense interest among researchers and has, as a result, enjoyed rap
establishing criteria for evaluating trac ...

Keywords: TLBs, caches, memory management, memory simulation, trace-driven simulation

124 [IS '97: model curriculum and guidelines for undergraduate degree programs in information system](#)

Gordon B. Davis, John T. Gorgone, J. Daniel Cougar, David L. Feinstein, Herbert E. Longenecker

December 1996

ACM SIGMIS Database , Guidelines for undergraduate degree programs o


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125 [Level II technical support in a distributed computing environment](#)

Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**

Full text available:  pdf(5.73 MB)

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126 ASHs: Application-specific handlers for high-performance messaging

Deborah A. Wallach, Dawson R. Engler, M. Frans Kaashoek

August 1996

ACM SIGCOMM Computer Communication Review , Conference proceedi

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Application-specific safe message handlers (ASHs) are designed to provide applications with hardware-level arrival. ASHs can direct message transfers (thereby eliminating copies) and send messages (thereby reduplicate message ...

127 Mariposa: a wide-area distributed database system

Michael Stonebraker, Paul M. Aoki, Witold Litwin, Avi Pfeffer, Adam Sah, Jeff Sidell, Carl Staelin, Andrew Yu

January 1996

The VLDB Journal — The International Journal on Very Large Data Base

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The requirements of wide-area distributed database systems differ dramatically from those of local-area different access and charging algorithms, install site-specific data type extensions, and have different normal business h ...


Keywords: Autonomy, Databases, Distributed systems, Economic site, Name service, Wide-area network

128 Informed prefetching and caching

R. H. Patterson, G. A. Gibson, E. Ginting, D. Stodolsky, J. Zelenka

December 1995

ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM sym

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129 A highly available scalable ITV system

M. N. Nelson, M. Linton, S. Owicki

December 1995

ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM sym

Full text available:  pdf(1.64 MB)

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130 Implementing global memory management in a workstation cluster

M. J. Feeley, W. E. Morgan, E. P. Pighin, A. R. Karlin, H. M. Levy, C. A. Thekkath

December 1995

ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM sym

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131 Exokernel: an operating system architecture for application-level resource management

D. R. Engler, M. F. Kaashoek, J. O'Toole

December 1995

ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM sym

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132 A compiler-directed distributed shared memory system

Tzi-cker Chiueh, Manish Verma

July 1995

Proceedings of the 9th international conference on Supercomputing

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133 Pen computing: a technology overview and a vision

André Meyer

July 1995

ACM SIGCHI Bulletin, Volume 27 Issue 3

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This work gives an overview of a new technology that is attracting growing interest in public as well as in academia. It describes the interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From a short historic ...

134 Compiler transformations for high-performance computing

David F. Bacon, Susan L. Graham, Oliver J. Sharp

December 1994

ACM Computing Surveys (CSUR), Volume 26 Issue 4

Full text available:  pdf(6.32 MB)

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In the last three decades a large number of compiler transformations for optimizing programs have been based on the analysis of scalar quantities and data-flow techniques. In contrast, optimizations for high-p tracking the properties o ...


Keywords: compilation, dependence analysis, locality, multiprocessors, optimization, parallelism, super

135 Transparent fault tolerance for distributed Ada applications

Mark A. Breland, Steven A. Rogers, Guillaume P. Brat, Kenneth L. Nelson

November 1994

Proceedings of the conference on TRI-Ada '94

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The advent of open architectures and initiatives in massively parallel supercomputing, combined with the tolerance. Expanding capabilities of distributed Ada runtime environments further stimulate the incorporation of distribution and virtually ...

136 Sharing and protection in a single-address-space operating system

Jeffrey S. Chase, Henry M. Levy, Michael J. Feeley, Edward D. Lazowska

November 1994

ACM Transactions on Computer Systems (TOCS), Volume 12 Issue 4

Full text available: pdf(2.87 MB)

Additional Information: fu

This article explores memory sharing and protection support in Opal, a single-address-space operating system. Sharing is simplified, because addresses are context independent. There is no loss of protection, because each thread executes. T ...


Keywords: 64-bit architectures, capability-based systems, microkernel operating systems, object-oriented

137 Cache coherence in large-scale shared-memory multiprocessors: issues and comparisons

David J. Lilja

September 1993

ACM Computing Surveys (CSUR), Volume 25 Issue 3

Full text available:  pdf(3.12 MB)


Additional Information: full citation, references, citings, index term

138 Compiling nested data-parallel programs for shared-memory multiprocessors

Siddhartha Chatterjee

July 1993

ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 15 Issue 3

Full text available:  pdf(4.17 MB)

Additional Information: full citation, references, citings, index terms, review


Keywords: compilers, data parallelism, shared-memory multiprocessors

139 Query evaluation techniques for large databases

Goetz Graefe

June 1993

ACM Computing Surveys (CSUR), Volume 25 Issue 2

Full text available:  pdf(9.37 MB)

Additional Information: [fu](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for and extensible database systems will not solve this problem. On the contrary, modern data models exchange records, query-processing ...


Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, matching algorithms, sort-hash duality

140 CHAOSarc: kernel support for multiweight objects, invocations, and atomicity in real-time multipro

Ahmed Gheith, Karsten Schwan

February 1993

ACM Transactions on Computer Systems (TOCS), Volume 11 Issue 1

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